

JOINT
TRIAL EXHIBIT
975

EXHIBIT
1A-16-103

AUG 14 1977
Steve Koberg C.S.R., R.P.R.



State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
CN 029
TRENTON NEW JERSEY 08625
Water Quality Management

JOHN DICKINSON, P.E.
DIRECTOR

DIR. C. NORMAN DE
DEPUTY DIRECTOR

FEB 25 1986

Mr. Matthias D. Dileo
777 Westpark Avenue
P. O. Box 365
Oakhurst, New Jersey 07755

Re: HATCO CHEMICAL CORPORATION: NJPDES DGW PERMIT NJ0051551
Request for additional 2 week extension of comment period

Dear Mr. Dileo:

This letter confirms our telephone conversation of Friday, February 14, 1986. The additional two (2) week extension to the comment period is hereby granted. Written comments must be received by the Bureau of Ground Water Quality Management by March 1, 1986.

Enclosed please find results of soil samples and ground water analyses obtained from locations downgradient from the Hatco facility. This data is part of the ECRA submission. Information enclosed is only a minor fraction of the data contained in the file. To review the entire file, appropriate review procedures must be followed. As per telephone conversation between Steve Anderson of my staff and Richard Bindelglass of your firm, the contact person to initiate proper file review procedures is Lisa Swanger (609) 984-7610.

Enclosed also find a summary of ground water data obtained from the NJPDES file. Please contact Kathy Locane at (609) 292-5062 to schedule an appointment to review the complete NJPDES file.

If you have any questions on this matter please contact Steve Anderson at (609) 292-0424.

Sincerely,
Steve Anderson
Arnold Schiffman, Administrator
Water Quality Management Element

WQMI 70

Enclosures

cc: John Dickinson, ORS
Paul Harvey, Central Enforcement

DR000328

New Jersey is An Equal Opportunity Employer

679668



Geraghty & Miller, Inc.

Table 1. Inventory of Monitoring wells* Located on Tenneco Chemicals Property, Fords, New Jersey (well locations shown on Figure 1).

well No.	Permit No.	Year Completed	Depth (feet below land surface)	Casing Diameter (inches)	Screen Setting (feet below land surface)
B 1	-	1979	25	1.5	8 - 25
B 25	-	1979	15	1.5	10 - 15
B 20	-	1979	35	4.0	20 - 35
B 3	-	1979	23	1.5	13 - 23
B 4	-	1979	25	1.5	16 - 25
B 55	-	1979	15	3.0	10 - 15
B 50	-	1979	36	4.0	28 - 36
B 65	-	1979	13	3.0	4 - 13
B 60	-	1979	24	1.5	16 - 24
B 75	-	1979	15	1.5	8.5 - 15
B 70	-	1979	39	4.0	20 - 39
B 85	-	1979	15	3.0	10 - 15
B 80	-	1979	42	4.0	24 - 42
B 9	-	1979	25	4.0	5 - 25
B10A	-	1979	29	4.0	19 - 29
B11	-	1979	17	4.0	7 - 17
B12	26-4875	1980	25	3.0	15 - 25
B13	26-4874	1980	30	3.0	20 - 30
B14	26-4876	1980	34	3.0	24 - 34
B15	26-4877	1980	45	3.0	35 - 45
16A	26-5393	1981	30.5	1.5	20.5 - 30.5
16B	26-5394	1981	13	1.5	3 - 13
17A	26-5395	1981	31	1.5	21 - 31
17B	26-5396	1981	15	1.5	5 - 15
18A	26-5397	1981	25.5	1.5	20 - 25.5
18B	26-5398	1981	13	1.5	3 - 13
18C	26-5448	1981	40	1.5	30 - 40
19A	26-5399	1981	30	1.5	20 - 30
19B	26-5400	1981	15	1.5	5 - 15
20A	26-5401	1981	30.5	1.5	20.5 - 30.5
20B	26-5402	1981	13	1.5	3 - 13
21A	26-5403	1982	21.5	1.5	11.5 - 21.5
21B	26-5404	1982	7	1.5	2 - 7
22A	26-5405	1982	23	1.5	13 - 23
22B	26-5406	1982	8	1.5	3 - 8
23	26-5573	1982	15	1.5	5 - 15

* All observation wells on Tenneco property tap the Farrington Sand member of the Raritan formation.

DR000329

Geraghty & Miller, Inc.

Table 4. Analytical Results of Ground-water Samples Collected in 1982.

well No.	Date Sampled	Benzene (ug/L)	Toluene (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroform (ug/L)	1,1-Dichloroethylene (ug/L)	1,2-Dichloroethane (ug/L)
B1	1-19-82	•	•	•	•	•	•	•
B25	1-20-82	510	130	•	•	•	•	•
B20	1-20-82	680	76	•	•	•	•	•
B3	1-21-82	•	•	•	•	•	•	•
B4	1-19-82	490	4,700	•	800	•	•	•
B55	1-21-82	10	66	•	45	•	•	•
B50	1-21-82	•	•	•	•	•	•	•
B65	1-22-82	•	•	•	•	•	•	•
B60	-	-	-	-	-	-	-	-
B75	1-19-82	200	11,000	650	1,100	4,500	17	•
B70	1-19-82	250	16,000	820	1,900	8,400	•	•
B85	6-25-82	•	19	•	•	•	•	•
B80	6-25-82	•	•	•	21	•	•	•
B90	1-19-82	•	320	•	•	•	•	•
B10A	1-19-82	•	•	•	•	•	•	•
B11	1-19-82	•	•	•	•	•	•	•
B12-Part 1	1-25-82	•	•	•	15	•	•	•
B12-Part 2	1-21-82	•	•	•	14	•	•	•
B12-Part 3	1-21-82	•	•	•	16	•	•	•
B12-Part 4	1-21-82	•	•	•	10	•	•	•
B13	1-19-82	16	•	•	•	•	•	•
B14	1-21-82	•	•	•	•	•	•	•
B15	6-25-82	•	52	•	•	•	•	•

• Below detection limit (see last page of Table 4).

DR000330

Geraghty & Miller, Inc.

Table 4. (Continued)

well No.	Date Sampled	Benzene (ug/L)	Toluene (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroform (ug/L)	1,1-Dichloroethylene (ug/L)	1,2-Dichloroethane (ug/L)
16A	1-20-82	•	•	•	•	•	•	•
	4-22-82	•	•	•	•	•	•	•
16B	1-20-82	•	•	•	•	•	•	•
	4-22-82	•	•	•	•	•	•	•
17A	1-20-82	200	2,500	•	600	120	•	•
	4-22-82	160	1,300	•	880	23	•	•
17B	1-20-82	36	180	•	15	•	•	•
	4-22-82	21	86	•	•	•	•	•
18A	1-20-82	400	•	•	•	•	•	•
	4-22-82	280	•	•	•	•	•	•
18B	1-20-82	340	17	•	•	•	•	•
	4-22-82	240	15	•	•	•	•	•
18C	1-20-82	700	80	•	•	•	•	•
	4-22-82	680	82	•	•	•	•	•
19A	1-21-82	•	•	•	33	•	•	•
	4-22-82	•	•	•	•	•	•	•
19B	1-21-82	•	•	•	•	•	•	•
	4-22-82	•	•	•	•	•	•	•
20A	1-21-82	•	•	•	•	•	•	•
	4-22-82	•	•	•	•	•	•	•
20B	1-21-82	•	•	•	•	•	•	•
	4-22-82	•	•	•	•	•	•	•
21A	1-22-82	31	160	•	22	•	•	•
	4-22-82	80	1,700	•	67	•	•	•
21B	1-25-82	•	•	•	•	•	•	•
	4-22-82	•	•	•	•	•	•	•
22A	1-24-82	230	45	•	17	•	•	•
	4-22-82	380	360	•	54	•	•	•
22B	1-21-82	•	•	•	•	•	•	•
	4-22-82	•	•	•	•	•	•	•
23	4-21-82	-	-	-	-	-	-	-

• Below detection limit
 - Not analyzed

DR000331

Table 4. (Continued)

Well No.	Date Sampled	1,3-Di-chloro-propylene (ug/L)	Ethyl-benzene (ug/L)	Methy-lene-chloride (ug/L)	1,1,2,2-Tetra-chloro-ethane (ug/L)	Tetra-chloro-ethylene (ug/L)	Tri-chloro-ethylene (ug/L)	1,2-Trans-dichloro-ethylene (ug/L)
B1	1-19-82	•	•	•	•	•	•	•
B25	1-20-82	•	•	•	•	•	34	10
B20	1-20-82	•	•	•	•	•	13	•
B3	1-21-82	•	•	•	•	•	•	•
B4	1-19-82	•	•	•	•	•	•	•
B55	1-21-82	•	45	•	•	•	•	•
B50	1-21-82	•	•	•	•	•	•	•
B65	1-22-82	•	•	•	•	•	•	•
B60	-	-	-	-	-	-	-	-
B75	1-19-82	12	12	92	28	23	20	•
B70	1-19-82	•	•	150	23	13	10	12
B85	6-25-82	•	•	•	•	•	•	•
B80	6-25-82	•	•	•	•	•	•	•
B9	1-19-82	•	•	•	•	•	•	•
B10A	1-19-82	•	•	•	•	•	•	•
B11	1-19-82	•	•	•	•	•	•	•
B12-Part 1	1-21-82	•	•	•	•	•	•	•
B12-Part 2	1-21-82	•	•	•	•	•	•	•
B12-Part 3	1-21-82	•	•	•	•	•	•	•
B12-Part 4	1-21-82	•	•	•	•	•	•	•
B13	1-19-82	•	•	•	•	•	•	•
B14	1-21-82	•	•	•	•	•	•	•
B15	6-25-82	•	•	•	•	•	•	•

• Below detection limit
 - Not analyzed

DR000332

Table 4. (Continued)

well No.	Date Sampled	1,3-Di-chloro-propylene (ug/L)	Ethyl-benzene (ug/L)	Methy-lene-chloride (ug/L)	1,1,2,2-Tetra-chloro-ethane (ug/L)	Tetra-chloro-ethylene (ug/L)	Tri-chloro-ethylene (ug/L)	1,2-Trans-dichloro-ethylene (ug/L)
16A	1-20-82	•	•	•	•	•	•	•
	4-22-82	•	•	•	•	•	•	•
16B	1-20-82	•	•	•	•	•	•	•
	4-22-82	•	•	22	•	•	•	•
17A	1-20-82	•	14	38	•	•	22	26
	4-22-82	•	•	15	•	•	13	15
17B	1-20-82	•	•	•	•	•	•	12
	4-22-82	•	•	73	•	•	•	10
18A	1-20-82	•	•	•	•	•	•	•
	4-22-82	•	•	14	•	•	•	•
18B	1-20-82	•	•	•	•	•	•	•
	4-22-82	•	•	25	•	•	•	•
18C	1-20-82	•	•	•	•	•	•	•
	4-22-82	•	•	•	•	•	•	•
19A	1-21-82	•	•	•	•	•	•	•
	4-22-82	•	•	•	•	•	•	•
19B	1-21-82	•	•	•	•	•	•	•
	4-22-82	•	•	•	•	•	•	•
20A	1-21-82	•	•	•	•	•	•	•
	4-22-82	•	•	•	•	•	•	•
20B	1-21-82	•	•	•	•	•	•	•
	4-22-82	•	•	16	•	•	•	•
21A	1-22-82	•	29	•	•	•	•	•
	4-22-82	•	150	34	•	•	•	•
21B	1-25-82	•	•	•	•	•	•	•
	4-22-82	•	•	11	•	•	•	•
22A	1-24-82	•	140	•	•	•	•	•
	4-22-82	•	500	12	•	•	•	•
22B	1-21-82	•	•	•	•	•	•	•
	4-22-82	•	•	10	•	•	•	•
23	4-21-82	-	-	-	-	-	-	-

• Below detection limit
 - Not analyzed

DR000333

Geraghty & Miller, Inc.

Table 4. (Continued)

Well No.	Date Sampled	Phenol (ug/L)	2,4-Di-chloro-phenol (ug/L)	2,4,6-Tri-chloro-phenol (ug/L)	p-chloro-cresol (ug/L)	2,4-Di-methyl-phenol (ug/L)	2-chloro-phenol (ug/L)	PCBs (ug/L)
B1	1-19-82	.	.	.	.	.	.	.
B25	1-20-82	.	.	.	.	.	.	.
B2D	1-20-82	.	.	.	.	.	.	.
B3	1-21-82	.	.	.	37	.	.	31.7
B4	1-19-82	.	.	.	.	.	.	.
B55	1-21-82	.	.	.	.	.	.	.
B5D	1-21-82	.	.	.	.	.	.	.
B65	1-22-82	.	.	.	.	.	.	.
B6D		.	.	.	.	.	.	.
B75	1-19-82	.	45	110	.	.	.	.
B7D	1-19-82	47	60	140	.	.	.	.
B85	6-25-82	.	.	.	.	.	.	.
B8D	6-25-82	.	.	.	.	.	.	.
B9	1-19-82	.	.	.	.	.	.	.
B10A	1-19-82	.	.	.	.	.	.	.
B11	1-19-82	.	.	.	.	35	.	.
B12-Part 1	1-25-82	.	.	.	.	38	.	.
B12-Part 2	1-21-82	.	.	.	.	28	.	.
B12-Part 3	1-21-82	.	.	.	.	.	.	.
B12-Part 4	1-21-82	.	.	.	.	.	.	.
B13	1-19-82	.	.	.	.	.	.	.
B14	1-21-82	.	.	.	.	.	.	.
B15	6-25-82	.	.	.	.	.	.	.

• Below detection limit.
- Not analyzed

DR000334

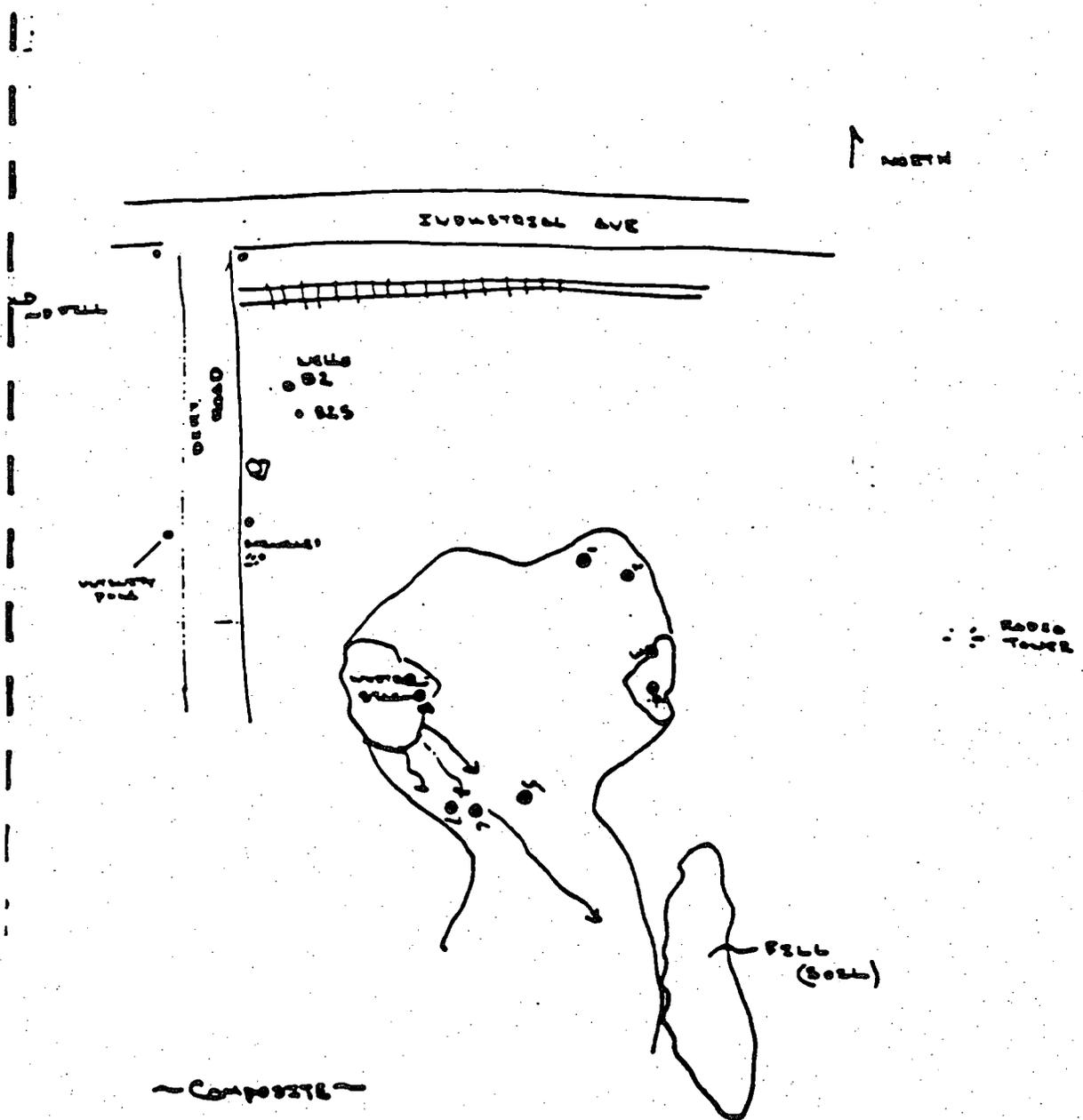
Table 4. (Continued)

well No.	Date Sampled	Phenol (ug/L)	2,4-Di-chloro-phenol (ug/L)	2,4,6-Tri-chloro-phenol (ug/L)	p-chloro-cresol (ug/L)	2,4-Di-methyl-phenol (ug/L)	2-chloro-phenol (ug/L)	PCBs (ug/L)
16A	1-20-82	•	•	•	•	•	•	•
	4-22-82	-	-	-	-	-	-	-
16B	1-20-82	•	•	•	•	•	•	•
	4-22-82	-	-	-	-	-	-	-
17A	1-20-82	3,500	300	30	46	9,900	140	•
	4-22-82	-	-	-	-	-	-	-
17B	1-20-82	•	•	•	•	•	•	•
	4-22-82	-	-	-	-	-	-	-
18A	1-20-82	•	•	•	•	•	•	•
	4-22-82	-	-	-	-	-	-	-
18B	1-20-82	•	•	•	•	•	•	•
	4-22-82	-	-	-	-	-	-	-
18C	1-20-82	•	•	•	•	•	•	•
	4-22-82	-	-	-	-	-	-	-
19A	1-21-82	•	•	•	•	•	•	•
	4-22-82	-	-	-	-	-	-	-
19B	1-21-82	•	•	•	•	•	•	•
	4-22-82	-	-	-	-	-	-	-
20A	1-21-82	•	•	•	•	•	•	-
	4-22-82	-	-	-	-	-	-	22.9
20B	1-21-82	•	•	•	•	•	•	-
	4-22-82	-	-	-	-	-	-	-
21A	1-22-82	•	•	•	•	•	•	5.69
	4-22-82	-	-	-	-	-	-	-
21B	1-25-82	•	•	•	•	•	•	-
	4-22-82	-	-	-	-	-	-	-
22A	1-24-82	•	•	•	•	26	•	5.07
	4-22-82	-	-	-	-	-	-	-
22B	1-21-82	•	•	•	•	•	•	-
	4-22-82	-	-	-	-	-	-	-
23	4-21-82	-	-	-	-	-	-	-

• Below detection limit
 - Not analyzed

DR000335

↑ NORTH



~ COMPOSITE ~
SURFACE TO 4" DEEP
AT 9 LOCATIONS

DR000337

Technical Report

for

NUODEX INC
INDUSTRIAL AVE.
FORDS, NJ 08863

Chain of Custody Data Required for ETC Data Management Summary Reports						
ETC Sample No	Company	Facility	Sample Point	Date	Time	Elapsed Hours
64465	NUODEX INC	NJ0FDR	SHELLS-2	041220		

James N. Lowe

Dennis C. K. Lin, Ph.D
Vice President
Research and Operations

DR000338

Introduction

This report contains the analytical results on your soil sample, SWELLB-2 84-10-000, designed to include comprehensive data from the entire analytical process in order to satisfy the needs of various levels of review.

The results obtained from your sample are presented in tabular format immediately following this introduction. Quality assurance data is tabulated along with the appropriate sample results for verification. Depending on the analyses ordered, the quality assurance data may include results from blank, spiked blank, spiked sample (i.e. matrix spike) and replicate samples as well as results from surrogate compound analyses. Quality assurance data for verification of proper instrument performance is also included where appropriate. The report also includes the chain of custody record for your sample and, where appropriate, the gas chromatograms and mass spectra.

The procedures used in the analysis of the sample are described in this report's methodology section. All analytical procedures within our laboratory are performed within a strict, enforced Quality Assurance Protocol. A description of this Protocol is included in the report.

Results

Sample results, and associated quality assurance data, are always tabulated in one or more of this report's Quantitative Results Tables. The format of each table varies with the class of analysis.

Priority Pollutants

The priority pollutant compounds and elements are listed with their NPDES (National Pollution Discharge Elimination System) numbers, and the Method Detection Limit (MDL) published in the Federal Register, December 3, 1979. When a compound or element is present below its published MDL it is reported as BMDL (Below Method Detection Limit). When a compound or element is not present at any detectable concentrations it is reported as ND (Not Detected). Matrix spike and replicate analyses, where included, were performed on samples randomly chosen within each quality assurance batch and are therefore not necessarily spikes or replicates of this report's sample. Surrogate compound recovery data and instrument calibration data are included in the Method Performance Data Tables.

DR000339

ETC

ENVIRONMENTAL TESTING and CERTIFICATION

JAN 17 1995

TABLE 1: QUANTITATIVE RESULTS and QUALITY ASSURANCE DATA

Acid Compounds - GC/MS Analysis Data (QR02)

DR000342

Chain of Custody Data Required for ETC Data Management Summary Reports

C4465 RUDEX INC NUMOR SHELLO-2 941220
 ETC Sample No. Company Facility Sample Point Date Time Staged Hours

NPDES Number	Compound	Results		GC Replicate		GC Blank and Spiked Blank			GC Matrix Spike		
		Sample Concn. ug/kg	MCL ug/kg	First ug/kg	Second ug/kg	Blank Data ug/kg	Concen. Added ug/kg	% Recover	Unspiked Sample ug/kg	Concen. Added ug/kg	% Recover
1A	2-Chlorophenol	ND	4125	ND	ND	ND	0	...	ND	4000	91
2A	2,4-Dichlorophenol	ND	4125	ND	ND	ND	0	...	ND	4000	100
3A	2,4-Dimethylphenol	ND	4125	ND	ND	ND	0	...	ND	4000	64
4A	4,6-Dinitro-o-cresol	ND	41250	ND	ND	ND	0	...	ND	4133	69
5A	2,4-Dinitrophenol	ND	41250	ND	ND	ND	0	...	ND	4133	50
6A	2-Nitrophenol	ND	4125	ND	ND	ND	0	...	ND	4000	91
7A	4-Nitrophenol	ND	4125	ND	ND	ND	0	...	ND	4000	40
8A	p-Chloro-m-cresol	ND	4125	ND	ND	ND	0	...	ND	4000	97
9A	Pentachlorophenol	ND	4125	ND	ND	ND	0	...	ND	4000	86
10A	Phenol	ND	4125	ND	ND	ND	0	...	ND	4000	80
11A	2,4,6-Trichlorophenol	ND	4125	ND	ND	ND	0	...	ND	4000	96

0.4% unspiked blank detection limit for this particular sample
 0.4% spiked blank, spiked blank cannot be performed for this sample size

TABLE 1: QUANTITATIVE RESULTS and QUALITY ASSURANCE DATA
BASE/NEUTRAL COMPOUNDS - GC/MS ANALYSIS DATA (OR03)

DR000312

Chain of Custody Data Required for ETC Data Management Summary Reports

04465 MUDX INC Facility: MUDX SHELLS-2 Sample Date: 041270

ETC Sample No. Company

NPDES Number	Compound	Residue		GC Replicate		GC Blank and Spiked Blank			GC Matrix Spike		
		Sample Concn. ug/hg	MCL ug/hg	First ug/hg	Second ug/hg	Blank Data ug/hg	Concn. Added ug/hg	% Recov.	Unspiked Sample ug/hg	Concn. Added ug/hg	% Recov.
	10 Acenaphthene	ND	1670	ND	ND	ND	0	0	ND	3753	57
	20 Acenaphthylene	ND	1670	ND	ND	ND	0	0	ND	3753	50
	30 Anthracene	ND	1670	ND	ND	ND	0	0	ND	3753	50
	40 Benzidine	ND	1670	ND	ND	ND	0	0	ND	3753	48
	50 Benzo(a)anthracene	ND	1670	ND	ND	ND	0	0	ND	3753	46
	60 Benzo(a)pyrene	ND	1670	ND	ND	ND	0	0	ND	0	38
	70 Benzo(b)fluoranthene	ND	1670	ND	ND	ND	0	0	ND	3753	56
	80 Benzo(k)fluoranthene	ND	1670	ND	ND	ND	0	0	ND	3753	50
	90 Benzo(ghi)perylene	ND	1670	ND	ND	ND	0	0	ND	3753	53
	100 bis(2-Chloroethoxy)methane	ND	1670	ND	ND	ND	0	0	ND	3753	36
	110 bis(2-Chloroethyl) ether	2.251-05	1670	ND	ND	ND	0	0	ND	3753	55
	120 bis(2-Chloroisopropyl) ether	ND	1670	ND	ND	ND	0	0	ND	3753	55
	130 bis(2-Ethylhexyl)phthalate	15700	1670	ND	ND	ND	0	0	ND	3753	48
	140 4-Bromophenyl phenyl ether	ND	1670	ND	ND	ND	0	0	ND	3753	50
	150 Butyl benzyl phthalate	ND	1670	ND	ND	ND	0	0	ND	3753	50
	160 2-Chloronaphthalene	ND	1670	ND	ND	ND	0	0	ND	3753	57
	170 4-Chlorophenyl phenyl ether	ND	1670	ND	ND	ND	0	0	ND	3753	24
	180 Chrysene	ND	1670	ND	ND	ND	0	0	ND	3753	55
	190 Dibenz(a,h)anthracene	ND	1670	ND	ND	ND	0	0	ND	3753	60
	200 1,2-Dichlorobenzene	ND	1670	ND	ND	ND	0	0	ND	3753	66
	210 1,3-Dichlorobenzene	ND	1670	ND	ND	ND	0	0	ND	3753	48
	220 1,4-Dichlorobenzene	ND	1670	ND	ND	ND	0	0	ND	3753	57
	230 3,3'-Dichlorobenzidine	ND	1670	ND	ND	ND	0	0	ND	3753	51
	240 Diethyl phthalate	ND	1670	ND	ND	ND	0	0	ND	3753	59
	250 Dimethyl phthalate	21400	1670	ND	ND	ND	0	0	ND	3753	47
	260 Di-n-butyl phthalate	ND	1670	ND	ND	ND	0	0	ND	3753	52
	270 2,4-Dinitrotoluene	17700	1670	ND	ND	ND	0	0	ND	3753	59
	280 2,6-Dinitrotoluene	ND	1670	ND	ND	ND	0	0	ND	3753	47
	290 Di-n-octyl phthalate	ND	1670	ND	ND	ND	0	0	ND	3753	52
	300 1,2-Diphenylhydrazine	ND	1670	ND	ND	ND	0	0	ND	3753	52
	310 Fluoranthene	ND	1670	ND	ND	ND	0	0	ND	3753	52
	320 Fluorene	ND	1670	ND	ND	ND	0	0	ND	3753	52

ETC

ENVIRONMENTAL TESTING AND CERTIFICATION

100 1985

**TABLE 1: QUANTITATIVE RESULTS and QUALITY ASSURANCE DATA
BASE/NEUTRAL COMPOUNDS - GC/MS ANALYSIS DATA (OR03)**

DR000343

Chain of Custody Data Required for ETC Data Management Summary Reports

04065	RADEX INC	MMFDR	WELLS-2	041279		
ETC Sample No.	Company	Facility	Sample Point	Date	Time	Elapsed Time

NPDES Number	Compound	Results		GC Replicate		GC Blank and Spiked Blank			GC Matrix Spike		
		Sample Concn. ug/hg	MDL ug/hg	First ug/hg	Second ug/hg	Blank Data ug/hg	Concn. Added ug/hg	% Recov.	Unspiked Sample ug/hg	Concn. Added ug/hg	% Recov.
33B	Hexachlorobenzene	ND	1670	ND	ND	ND	0	0	ND	3753	53
34B	Hexachlorobutadiene	ND	1670	ND	ND	ND	0	0	ND	3753	52
35B	Hexachlorocyclopentadiene	ND	1670	ND	ND	ND	0	0	ND	0	-
36B	Hexachloroethane	ND	1670	ND	ND	ND	0	0	ND	3753	54
37B	Indeno(1,2,3-c,d)pyrene	ND	1670	ND	ND	ND	0	0	ND	3753	54
38B	Isophorone	ND	1670	ND	ND	ND	0	0	ND	3253	49
39B	Naphthalene	NDL	1670	ND	ND	ND	0	0	ND	3753	51
40B	Nitrobenzene	ND	1670	ND	ND	ND	0	0	ND	0	-
41B	N-Nitrosodimethylamine	ND	1670	ND	ND	ND	0	0	ND	3753	50
42B	N-Nitrosodi-n-propylamine	ND	1670	ND	ND	ND	0	0	ND	3753	62
43B	N-Nitrosodiphenylamine	ND	1670	ND	ND	ND	0	0	ND	3753	59
44B	Phenanthrene	4510	1670	ND	ND	ND	0	0	ND	3753	50
45B	Pyrene	14400	1670	ND	ND	ND	0	0	ND	3753	51
46B	1,2,4-Trichlorobenzene	ND	1670	ND	ND	ND	0	0	ND	3753	51

* ND - Not Detected
 * NDL - Not Determined Limit
 * 0 - Sample Blank, Blank Blank used to determine for this sample only
 * 0 - Sample Blank, Blank Blank used to determine for this sample only

ETC

ENVIRONMENTAL TESTING and CERTIFICATION

JAN 5, 1995

TABLE 1: QUANTITATIVE RESULTS and QUALITY ASSURANCE DATA

Pesticide/PCB Compounds - GC/MS Analysis Data (QR04)

NR000344

Chain of Custody Data Required for ETC Data Management Summary Reports

G4665 MUDER INC MUDER WELLS-2 041220

ETC Sample No. Company Facility Sample Point Date Time Signed

WDEG Number	Compound	Results		QC Replicates		QC Blank and Spiked Blank			QC Matrix Spike		
		Sample Concn. ug/hg	NDL ug/hg	First ug/hg	Second ug/hg	Blank Data ug/hg	Concn. Added ug/hg	% Recov.	Unspiked Sample ug/hg	Concn. Added ug/hg	% Recov.
1P Aldrin		ND	1670	ND	ND	ND	0	0	ND	3253	46
2P Alpha-BHC		ND	1670	ND	ND	ND	0	0	ND	3253	46
3P Beta-BHC		ND	1670	ND	ND	ND	0	0	ND	3253	50
4P Gamma-BHC		ND	1670	ND	ND	ND	0	0	ND	3253	45
5P Delta-BHC		ND	1670	ND	ND	ND	0	0	ND	6506	61
6P Chlordane		ND	1670	ND	ND	ND	0	0	ND	3253	39
7P 4,4'-DDE		ND	1670	ND	ND	ND	0	0	ND	3253	46
8P 4,4'-DDX		ND	1670	ND	ND	ND	0	0	ND	3253	39
9P 4,4'-DDD		ND	1670	ND	ND	ND	0	0	ND	3253	45
10P Dieldrin		ND	1670	ND	ND	ND	0	0	ND	3253	60
11P Indosulfan I		ND	1670	ND	ND	ND	0	0	ND	3253	29
12P Indosulfan II		ND	1670	ND	ND	ND	0	0	ND	3253	20
13P Indosulfan sulfate		ND	1670	ND	ND	ND	0	0	ND	3253	25
14P Endrin		ND	1670	ND	ND	ND	0	0	ND	3253	49
15P Endrin aldehyde		ND	1670	ND	ND	ND	0	0	ND	3253	47
16P Heptachlor		ND	1670	ND	ND	ND	0	0	ND	0	0
17P Heptachlor epoxide		ND	1670	ND	ND	ND	0	0	ND	0	0
18P PCB-1242		ND	1670	ND	ND	ND	0	0	ND	0	0
19P PCB-1254		ND	1670	ND	ND	ND	0	0	ND	0	0
20P PCB-1221		ND	1670	ND	ND	ND	0	0	ND	0	0
21P PCB-1232		ND	1670	ND	ND	ND	0	0	ND	0	0
22P PCB-1248		ND	1670	ND	ND	ND	0	0	ND	3253	39
23P PCB-1260		ND	1670	ND	ND	ND	0	0	ND	0	0
24P PCB-1816		ND	1670	ND	ND	ND	0	0	ND	0	0
25P Toxaphene		ND	1670	ND	ND	ND	0	0	ND	0	0

0 ND - Not Detected Based on the NDL for this particular sample
 0 Recov - 0% Recov based on the NDL for this sample
 0 Recov - 0% Recov based on the NDL for this sample

DR000345

TABLE 2: METHOD PERFORMANCE DATA
Surrogate Recovery Soil- GC/MS Data (QR20)

Chain of Custody Data Required for ETC Data Management Summary Reports

G4465

ETC Sample No.

Company

Facility

Sample Point

Date

Time

Elapsed Hours

Compound	Amount Added ug	% Recovery	Control Limits #	
			Lower	Upper
VOLATILE FRACTION				
Toluene-D8	250	96	50	160
Bromofluorobenzene	250	74	50	160
1,2-Dichloroethane-D4	250	93	50	160
ACID FRACTION				
Phenol-D5	100	56	20	100
2-Fluorophenol	100	73	20	100
2,4,6-Tribromophenol	100	53	10	100
BASE/NEUTRAL FRACTION				
Nitrobenzene-D5	50	50	20	100
2-fluorobiphenyl	50	71	20	100
Torphenyl-D14	50	120	20	150

* 50 ppb Control Limits

Summary of ground water data from NJPDES file
All results in ppb

June 6, 1984

Well 2A
Benzene 591
Toluene 25

Well 2B
Benzene 329
TCE 28
Vinyl Chloride 12

Well 16A
ND

Well 16B
1,1 dichloroethene 97
1,1,1 trichloroethane 69

Well 18A
Benzene 23

Well 18B
Benzene 109

Well 18C
Benzene 580

September 26, 1984

Well 2A
Benzene 300
Vinyl Chloride 11

Well 2B
Benzene 529
Toluene 20

Well 16A
ND

Well 16B
1,1 dichloroethene 210
Methylene Chloride 15
Chloroethane 1070

Well 18A
ND

Well 18B
Benzene 67

Well 18C
Benzene 664

January 16, 1985

Well 2S
Benzene 292
Trichloroethane 16

Well 2B
Benzene 573

Well 16A
ND

Well 16B
1,1 dichloroethane 65
Chloroethane 356

Cluster 18 destroyed

March 27, 1985

Well 2A
Benzene 213
Methylene Chloride 4.7
Trichloroethane 12.7

Well 2B
Benzene 482
Methylene Chloride 8.9
Trichloroethane 4.4

Well 16A
ND

Well 16B
1,1 dichloroethane 155
1,1,1 Trichloroethane 77

DR0003-16